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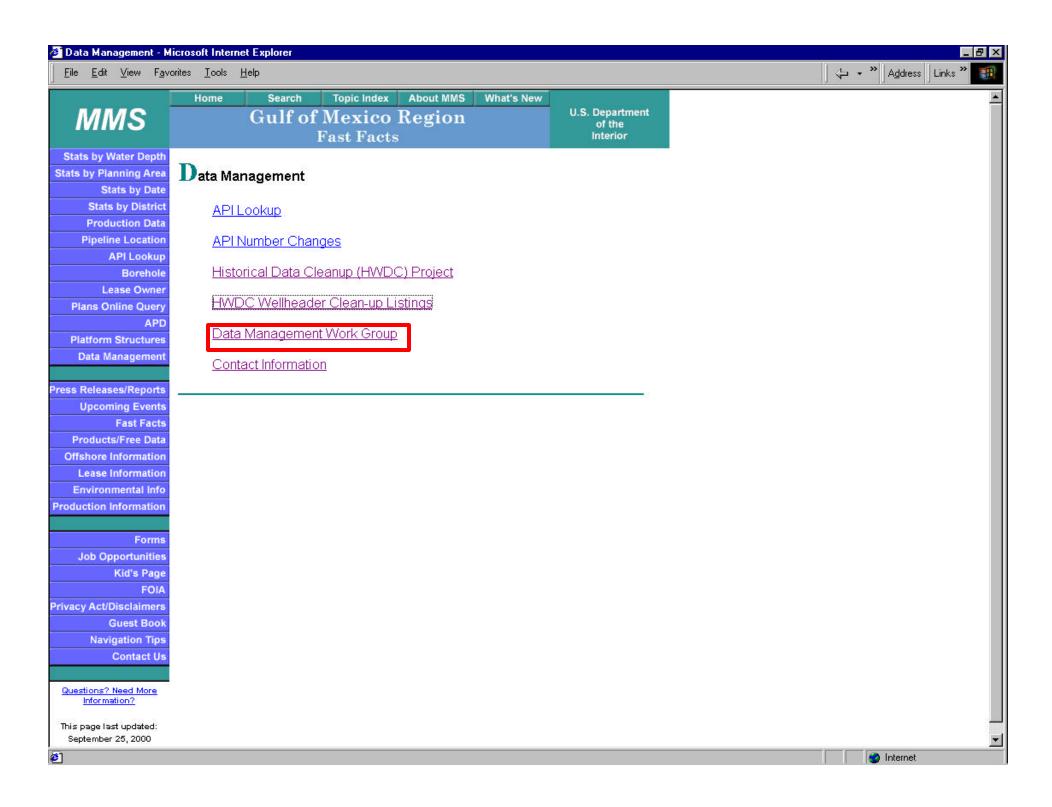
#### Questions? Need More Information?

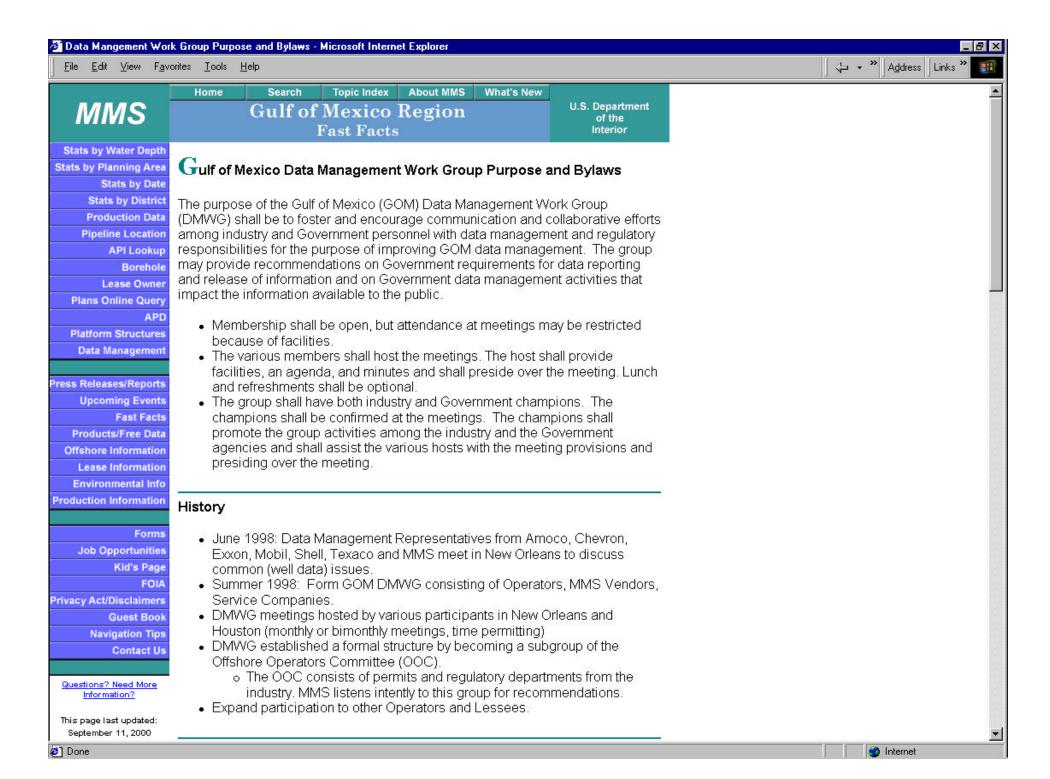
This page last updated: July 19, 2000

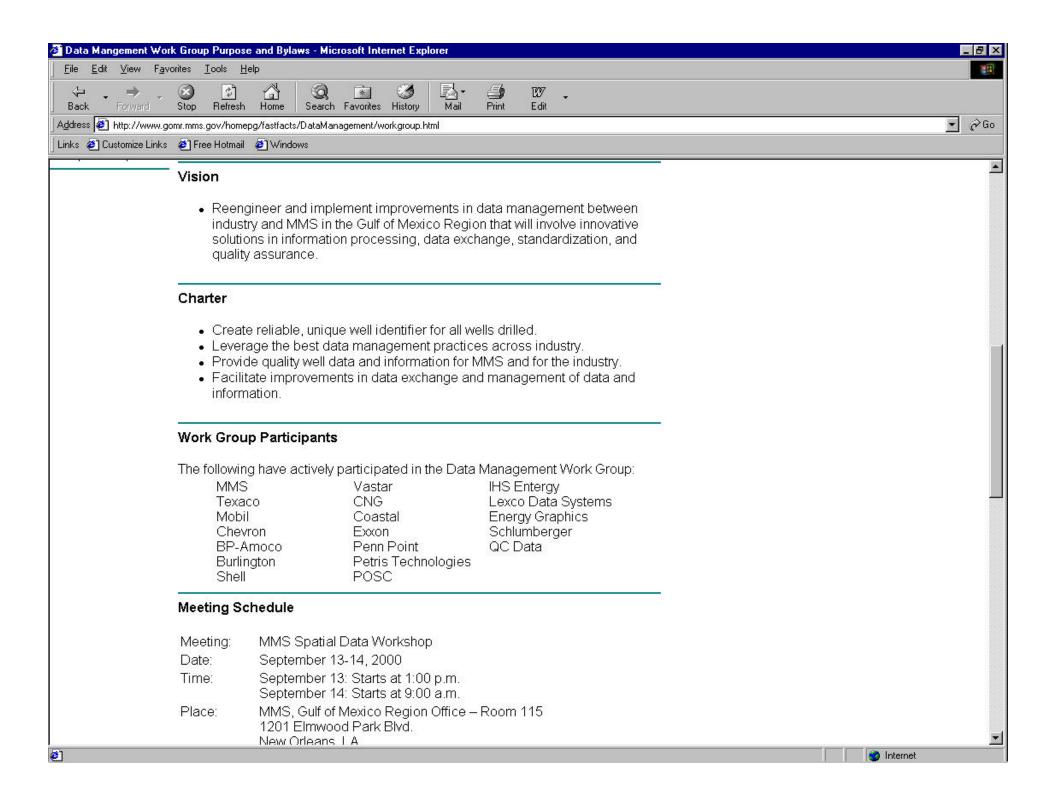
Column Alias	Definition						
API Well Number	API_WELL_NUMBER - A unique well identification number consisting of (from let to right) a two digit state code (or pseudo for Offshore), a three digit county code (or pseudo for Offshore), a five digit unique well code, and if applicable, a two digit sidetrack code as defined in API Bulletin D12A.						
BH Total MD	BH_TOTAL_MD -The actual distance measured along the axis of the borehole from the rig kelly bishing to the depth of maximum penetration of the wel. (Driller's TD)						
Botm Area Code	BOTM_AREA_CODE -The designated abbreviation assigned to Outer Continental Shelf (OCS) geographical units for identification purposes and for use on maps an in databases as applied to the bottomhole location of a well.						
Botm Block Num	BOTM_BLOCK_NUM -Identifies a subdivision of an Official Protraction Diagram a applied to the subdivision containing the bottomhole location of a well.						
Bottom EW Code	BOTM_E_W_CODE -Indicates whether the borehole bottom location is measured from the east (E) or west (W) block boundary.						
Bottom EW Distance	BOTM_E_W_DIST -The distance from the location of the borehole bottom to either the east or west block boundary.						
Botm Lease Num	BOTM_LEASE_NUM -The number assigned to the lease that contains the bottom location of a well.						
Bottom NS Code	BOTM_N_S_CODE -Indicates whether the borehole bottom location is measured from the north (N) or south (S) block boundary.						
Bottom NS Distance	BOTM_N_S_DIST -The distance from the location of the borehole bottom to either the north or south block boundary.						
Bottom Latitude	BOTM_LATITUDE -Angle subtended with equatorial plane by a perpendicular from a point on the surface of a spheriod. A positive value denotes north. The latitude value of a location in the borehole.						
Bottom Longitude	BOTM_LONGITUDE -Angle measured about the spheroid axis from a local prim meridian to the meridian through the point. A positive value denotes east. The longitude value of a location in a borehole.						
Bottom Sort Name	BOTM_SORT_NAME -Current operator of bottom lease.						
Surf Area Code	SURF_AREA_CODE -The indicator used to identify an area name.						
Surf Block Num	SURF_BLOCK_NUM -Identifies a subdivision of an Official Protraction Diagram as applied to the subdivision containing the surface location of a well.						

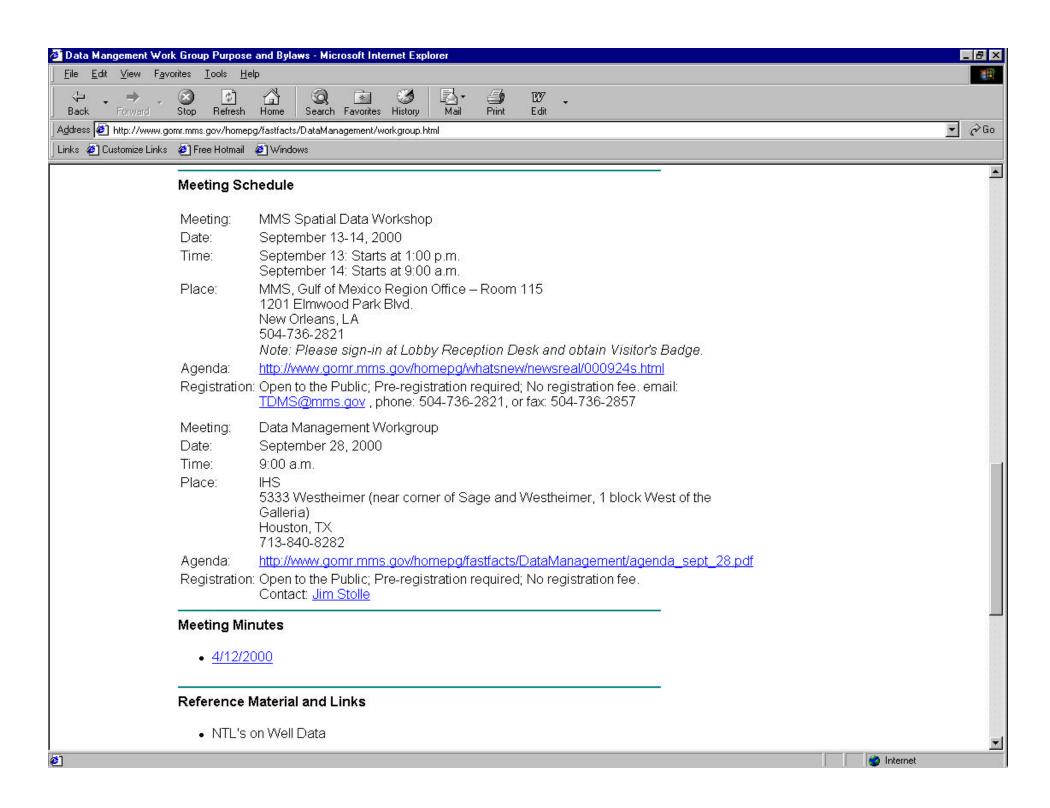


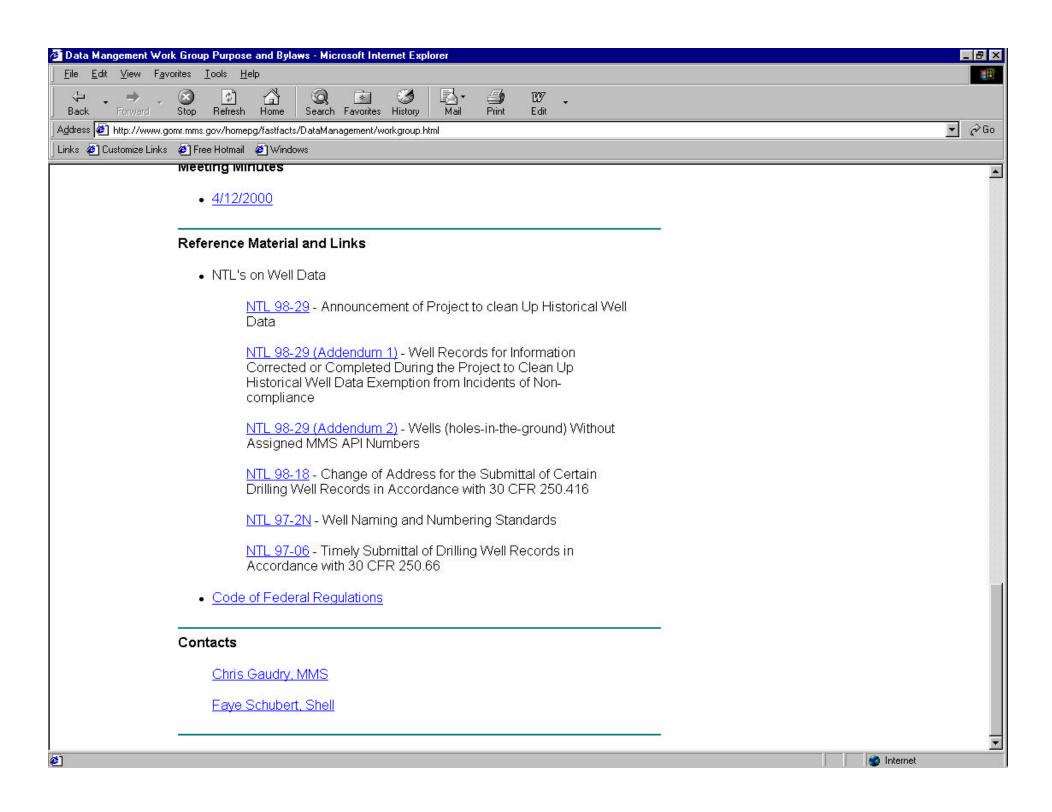


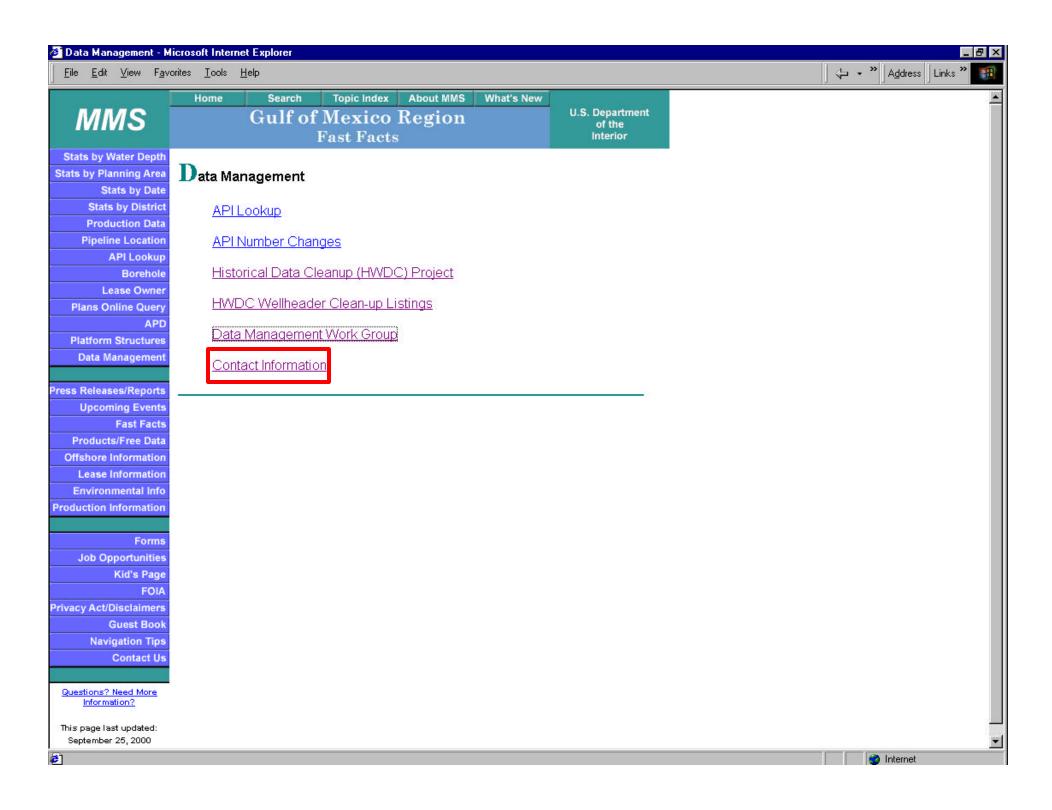


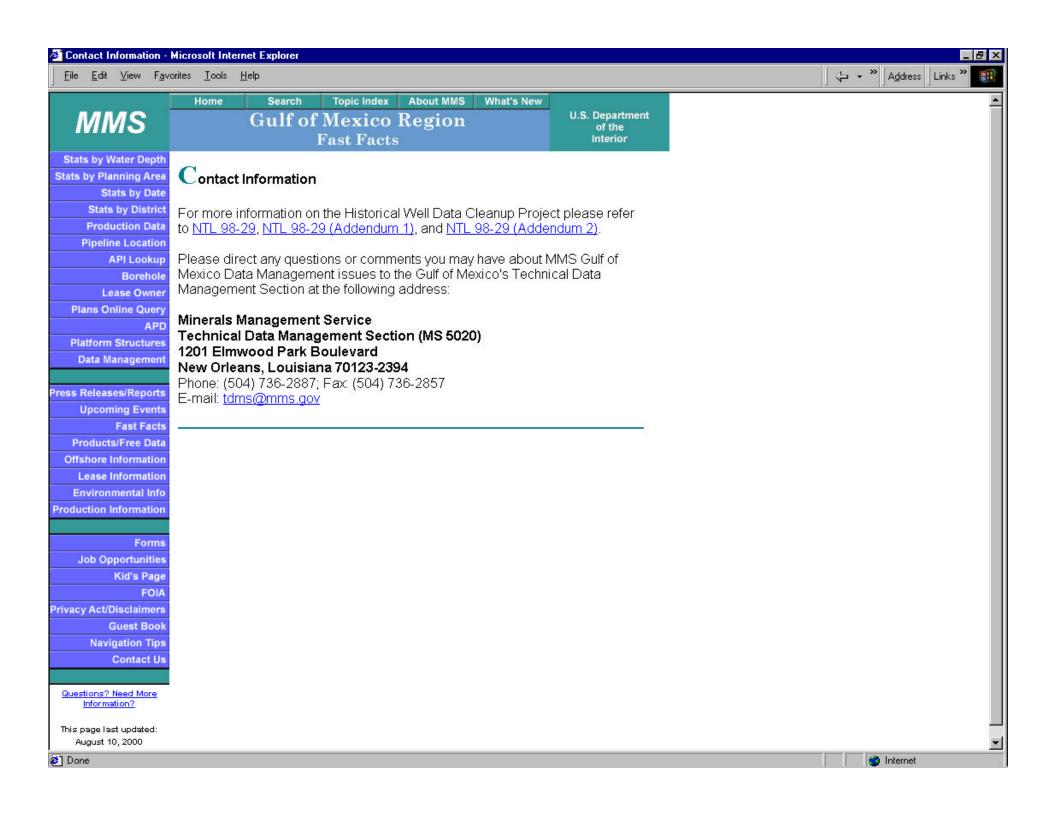












# Production Statistics Historical Well Data Cleanup

- Fully operational on February 14, 2000
- Reviewed 2290 blocks (743 blocks with wells)
- Common Well Headers built 7049
- New API's identified 155

#### **Active Areas & Blocks**

Seq.	Letters Sent	Area	Blocks							
	02/02/2000	Curana laland	EL 207	EL 200	Floor					
1	03/03/2000	Eugene Island	El 207 El 216	El 208 El 215	El209 El 214					
			El 229	El 230	El 231					
			Lizzo	Li 250	LIZOI					
2	03/28/2000	Viosca Knoll	VK 911	VK 912	VK 913					
			VK 956	VK 957	VK 958					
			VK 999	VK1000	VK1001					
3	04/11/2000	Garden Banks	GB 381	GB 382	GB 383					
			GB 425	GB 426	GB 427					
			GB 469	GB 470	GB 471					
4	04/05/0000	M. satom a Johan d	MILLOOO	MILLOOO	MU A11					
4	04/25/2000	Mustang Island	MU 829 MU A12	MU 830 MU A13	MU A11					
			MU A21	MU A20						
			MU A22	MU A23	MU A24					
			IVIO 7 CZ	10107120	IVIO 7 IZ-1					
5	04/26/2000	Matagorda Island	MI 598	MI 599	MI 600	MI 601	MI 602			
		<u> </u>	MI 625	MI 624	MI 623	MI 622	MI 621			
			MI 633	MI 634	MI 635	MI 636	MI 637			
			MI 655	MI 654	MI 653	MI 652	MI 651			
6	05/23/2000	High Island	HI 178	HI 177	HI 176	HI 175				
			HI 194	HI 195	HI 196	HI 197				
			HI 207	HI 206	HI 205	HI 204				
			HI 229	HI 230	HI 231	HI 232				
7	05/23/2000	East Cameron	EC 87	EC 88	EC 89	EC 90				
-	00/20/2000	Edot Garreron	EC 96	EC 95	EC 94	EC 93				
			EC 105	EC 106	EC 107	EC 108				
			EC 114	EC 113	EC 112	EC 111				
8	05/23/2000	Grand Isle	GI 109	GI 110	GI 111	GI 112	GI 113			
			GI 117	GI 116	GI 115	GI 114				
			GI 118	GI 119	GI 120					
			GI 121							
9	06/07/2000	Evina Book					EW 658			
9	06/07/2000	Ewing Bank				EW 701	EW 702			
				EW 743	EW 744	EW 745	EW 746			
			EW 786	EW 787	EW 788	EW 789	EW 790			
			EW 830	EW 831	EW 832	EW 833	EW 834			
10	06/20/2000	Mississippi Canyon						MC 617	MC 618	MC 619
								MC 661	MC 662	MC 663
								MC 705	MC 706	MC 707
								MC 749	MC 750	MC 751
								MC 793	MC 794	MC 795
11	07/05/2000	Mississippi Copyses	ALL DEM	AININIC DI	OCKS					
11	07/05/2000 07/11/2000	Mississippi Canyon	ALL REMAINING BLOCKS							
12	09/14/2000	Garden Banks	ALL REM	AINING BL	OCKS					
12	33,1-72000	Cardon Barino	7 1   1	4.1. 40 DL						
13		Ewing Bank	ALL REM	AINING BL	OCKS					
14		South Marsh Island	ALL BLOC	CKS						
15		West Delta	ALL BLOC	CKS						

## MMS HWDC Project Update

- Focus on digital headers & documents
  - review initial results
  - document inconsistencies
- Operator responses
  - submission variations
  - further inconsistencies
  - best practices
- Current activity
  - reworking headers from responses
  - posting of headers
  - clean up of associated data
- E&P Managers Meeting
  - discussion points

## MMS HWDC Project - Initial Results

	TIMS	сwнм	Well Files Scanned	Wells with Documents	Total Documents
Eugene Island	228	262	201	241	4083
Viosca Knoll	55	57	32	53	289
Garden Banks	40	56	30	38	263
Mustang Island	14	20	13	15	143
Matagorda Island	103	138	104	132	1530
High Island	93	103	81	94	1042
East Cameron	47	56	49	55	768
Grand Isle	20	21	15	18	140
Ewing Bank	7	13	7	11	47
Mississippi Canyon	14	15	6	6	45

### MMS HWDC Project - Document Inconsistencies

- APD's, Completion/summary reports, Sundry notices & Item 77
  - as submitted by operators
- Inconsistencies
  - surface and bottom hole information intermingled
    - block and lease information
  - alternating information on sequential documents
    - surface locations
  - different API numbers and/or well numbers
    - mismatch with digital headers
  - missing well bores
    - narrative reference to sidetracks but no key data

#### MMS HWDC Project - Operator Responses

- Submission variations
  - 50/50 split between paper and electronic data
  - variety of electronic data with numerous formats
- Further inconsistencies
  - not all CWHM attributes are supplied
  - lack of headings on spreadsheets
  - original hole and sidetracks with different surface locations
  - letters confirming borehole file as correct are inadequate
- Best practices
  - Shell, Texaco and Amerada
    - consolidated scouting information
- MMS/Petris feedback on responses

#### MMS HWDC Project - Current Activity

- Reworking of headers
  - built from all available information
    - digital headers from industry
    - MMS documents
    - operator responses
  - consistent set of data for all well bores
- Posting of headers
  - review and approval by Petris and the MMS
  - available under 'Fast Facts' from MMS homepage (http://www.gomr.mms.gov/index.html)
- Associated data
  - positioning and inventory
  - logs, cores, tests, velocities, pressures, paleo and production

## MMS HWDC Project - E&P Managers Meeting

#### Discussion points

- still a significant disparity between operators as to what is required
  - confirmed by range and content of responses
  - undermines the quality
- existing contacts are predominantly regulatory personnel
  - not really the benefactors
  - significance of project may be lost
- project targets E&P data management problems
  - formulated with feedback from DMWG (E&P data managers)
- real benefactors are E&P Groups
  - health and safety, interpretation, drilling, cost control
- improve awareness within E&P groups
  - custodians of key data
  - appropriate resource to determine value